Green Diode Laser

Abstract of the Disclosure

A green diode laser includes a tubular laser casing, a heat sink sealedly mounted at the laser casing, a semiconductor chip supported by the heat sink, an optical resonant cavity supported within the laser casing, including a lasing medium and an intracavity frequency doubler, an IR blocking filter inclinedly and seadedly mounted at the laser casing to optically communicate with an output facet, and a photodiode supported within the laser casing at a position that when the laser beam exits the output facet, the IR blocking filter reflects a portion of the laser beam towards the photodiode such that the photodiode is adapted for detecting the laser beam from the IR blocking filter as a feedback for controlling a power output of the green laser chip.